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Economic Regulatory Administration

Powerplant and Industrial Fuel Use Act of 1978; Availability of Revised Guidelines for Preparation of Environmental Reports

DEPARTMENT OF ENERGY

Economic Regulatory Administration

Powerplant and Industrial Fuel Use Act of 1978; Availability of Revised Guidelines for Preparation of Environmental Reports

AGENCY: Economic Regulatory Administration, Department of Energy.

ACTION: Notice of Availability of Final Guidelines for Preparation of Environmental Reports.

SUMMARY: The Economic Regulatory Administration (ERA) of the Department of Energy (DOE) announces the availability of final guidelines for preparation of environmental reports. These guidelines contain modifications to the proposed guidelines published on January 31, 1979 (44 FR 6177). They have been revised to respond to comments received on the January 31, 1979, guidelines and to correspond more closely with the requirements of the Interim Rule for Criteria for Petition for Exemption from Prohibitions (44 FR 28950, May 17, 1979). The guidelines are to be followed by petitioners who, pursuant to the Fuel Use Act (FUA), are filing petitions for permanent exemptions for powerplants and major fuel burning installations. The environmental reports (ERs) to be prepared by the petitioner in compliance with these revised guidelines will comprise the Environmental Impact Analysis Chapter of the Fuels Decision Report (FDR). Environmental Reports are to be sumitted for all appropriate exemption petitions not expressly excluded by the Fuel Use Act (FUA) from compliance with the National Environmental Policy Act of 1969 (NEPA). These guidelines are refereed to in § 502.13 of 44 FR 28950, which discusses the requirements for the Environmental Impact Analysis Chapter and briefly outlines general information which the chapter should contain.

In the majority of cases, these guidelines will be used in submitting petitions for permanent exemptions from the statutory prohibitions applicable to new facilities, as prescribed in Title II of the Act. since the greatest application of the guidelines will be in the area of new facilities, they have been structured to apply to the construction of new facilities and to the expansion or renovation of existing facilities through the construction or modification of units which are within the jurisdiction of Title II. However, there are three cases when the guidelines should also be used in submitting petitions for exemptions for existing facilities. For these cases, the guidelines should be interpreted and applied, as appropriate, to fit the conditions and circumstances of the existing facility. The first case is represented by exemptions requested for existing powerplants which are prohibited from use of natural gas under Title III of the Act. The second case is represented by exemptions requested for specific categories of new and existing facilities which may be prohibited by rule from use of natural gas or petroleum under both Title II and Title III of the Act. Owners of individual facilities affected by such rules should follow these guidelines as appropriate in petitioning for exemptions from the prohibitions established by the rules.

The third case is represented by those proposed prohibition order recipients who elect to sumbit environmental analyses when commenting on the proposed orders issued under Title III. Under the interim rule governing existing facilities published on July 23, 1979, (44 FR 43176), no submission from the recipient of a proposed prohibition order will be required at any time before the order becomes effective. During that period, ERA will have proposed that an order be issued for an existing facility and will have subsequently published a Tentative Staff Decision for the facility (Section 501.51). Since ERA will have already performed a NEPA reveiew in conjunction with the Tentative Staff Decision, it would no longer be appropriate to require that an environmental analysis be submitted by the recipient. However, if a recipient of a prohibition order desires to submit an environmental analysis of the conversion as part of his comment on the proposed prohibition order, he is encouraged to use these guidelines in preparing the analysis.

The ERs should provide ERA with information that will assist ERA in complying with the requirements of NEPA. When weighing the environmental consequences of ERA's decision on an applicant's exemption petition, ERA must develop information in recognition of the fact that the "Federal action" involved will consitute either the granting or the denial of the exemption. The ER must therefore contain sufficient information to support either decision. In the event that the exemption is denied, the petition must contain sufficient information to allow ERA to adequately assess the environmental consequences of the denial. This will require that the petitioner analyze the environmental effects of the alternative actions which might reasonably be projected if the petition were denied. The alternative actions could range from a decision not to build or expand the facility, to the use of reasonable alternate fuels in the operation of the facility. The guidelines have been revised to clarify these requirements for thorough analysis.

Subsequent to publication of the January 31 proposed guidelines, ERA received a number of written comments which were considered and responded to in the preparation of the final guidelines. The comments received most frequently were: (1) That excessive amounts of environmental data were being requested; and (2) that the guidelines format did not conform with the Council on Environmental Quality's (CEQ) Final Regulation for Implementation of Procedural Provisions of the National Environmental Policy Act (43 FR 55978). The final guidelines have been revised to demonstrate ERA's express intent to avoid the collection of unnecessary environmental data and to ensure that ERs follow the CEQ Final Regulations as adopted by DOE at 10 CFR Part 1021, and the DOE Implementing Guidelines, (as proposed July 18, 1979, 44 FR 42136).

In the ER, the petitioner should scope the impacts of the proposed action, as well as all reasonable alternatives to the proposed action, and the environmental consequences of those impacts. The petitioner's ER should address those specific issues which directly relate to the proposal in a depth appropriate to the importance of the impact and in as succinct a manner as possible. ERA does not intend that the petitioner collect irrelevant data or prepare an encyclopedic treatment of the subject matter, but, rather, intends that the petitioner take responsibility for presenting those facts which are necessary for preparation of an objective evaluation of the environmental consequences of the proposal and its alternatives.

FOR FURTHER INFORMATION CONTACT:

Steven E. Ferguson, Chief, Environmental Analysis Branch, Office of Fuels Conversion, Room 3322–D, 2000 M Street, N.W., Washington, D.C. 20461 (202) 634–6523.

Janine Landow-Esser, Attorney, OGC, Room 6G–087, Forrestal Building, Washington, D.C. 20585 (202) 252–6947.

Robert Stern, Div. of NEPA Affairs/ Environment, Room 4G–064, Forrestal Building, Washington, D.C. 20585 (202) 252–4600.

Dated: October 26, 1979.

Robert L. Davies,

Acting Assistant Administrator, Office of Fuels Conversion, Economic Regulatory Administration.

Introduction

These guidelines prescribe the organization and content of the environmental report (ER) to be submitted with petitions for permanent exemptions for new powerplants and major fuel burning installations in accordance with the provisions of both the Fuel Use Act and National Environmental Policy Act (NEPA). The ER will comprise the Environmental Impact Analysis Chapter of the Fuels Decision Report (FDR) and will assist ERA in fulfilling its responsibilities under NEPA. Information contained in the ER will form the basis for the initial ERA environmental review which will determine the type of NEPA document which ERA will prepare.

The analysis and information contained in the ER should adequately treat all reasonable alternatives so that the subsequent ERA NEPA document is sufficient to support a decision either to grant or to deny an exemption. It is anticipated that during prepetition conferences with ERA, a wide range of potential alternative fuel scenarios will be discussed. As a result of such discussions, a group of reasonable alternative fuel scenarious, including various fuel mixtures, will be selected for full treatment in the FDR. The environmental impact of these alternative fuels will be analyzed in Chapter III B of the ER. Environmental analysis will not be required for alternative fuels that ERA has determined need not be covered in the FDR. However, the petitioner will be required to analyze the "no-build" option, since in the event that petition for exemption were denied, the petitioner might reasonably be expected to elect this option. The petitioner's analysis of the "no-build" option should include a description of the reasonable scenarios of what would occur if a corporate decision were made not to build, and a characterization of the environmental impacts that would result from this decision. For example, the petitioner should assess the environmental ramifications of the continued operation of older, less efficient units if this is the likely outcome of a denial of an exemption petition for a new replacement unit. In summary, ERA expects petitioners to conduct those appropriate environmental impact analyses which are necessary to determine the impact of the proposal and agreed upon alternatives, including the "no-build" option.

In preparing the ER, the petitioners should closely follow the format provided in the Council on Environmental Quality's (CEQ) Final Regulations of November 29, 1978 (43 FR 55978), as adopted by DOE at 10 CFR Part 1021, the Department of Energy's NEPA guidelines (44 FR 42136), and the format outlined in these final ER guidelines. These ER guidelines are not intended for use as checklists, but as general guidance to be applied to the preparation of detailed ER's for specific facilities. It is intended that each petitioner thoroughly understand and assess the total proposal for his specific facility, the environmental systems which might be affected by that proposal, and the impact which the proposal would have on those systems. In analyzing the proposed action, the petitioner should perform an assessment of only those issues which directly relate to the impact of the proposal and its alternatives. The assessments should be of a detail commensurate with the importance of the impacts, and should be analytic rather than encyclopedic. If the applicant determines that a particular environmental resource will not be impacted by the proposed action, he should state this determination with a brief explanation of why there will be no impact. The petitioner should consult with appropriate Federal, regional, state, and local entities during the preparation of the environmental report to determine those laws and statutes which govern the applicant's actions.

Any information which is required for the ER but which has been included in other parts of the FDR, FUA exemption forms, or documents prepared for other purposes may be incorporated by reference. To incorporate this information, the petitioner must cite the specific page of the FDR; the name, date, page and section number of the FUA exemption form; or the title, date, and page of the document. The petitioner may not incorporate material by reference unless a copy of that material is submitted in conjunction with the petition.

These guidelines apply both to the construction and operation of totally new facilities and to the expansion or renovation of existing facilities. The petitioner must determine the significant area of concern for each category of potential impact (e.g., air, water, land use) and analyze those areas in suitable detail. Throughout these guidelines, the term "facility" has been used to mean either "facility" or "unit" as appropriate to the area of analysis involved.

In preparing these guidelines, ERA has used the future tense to address proposed actions, with the intention that the guidelines apply equally to existing facilities which are being expanded, modified or renovated. Also, when referring to a facility, the singular form is intended to include the plural when multiple units are involved.

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I. Description of the Facility

A. Site Location and Surroundings

1. Name and Location of the Facility

Name the applicant and the location of the facility. Specify the location in terms of

proximity to the nearest towns and the major cities of the county and state. Provide a map showing the location of the facility and the roads, railroad facilities, or bodies of water which give access to it.

2. Description of the Facility

(1) Outline the various facility components to be constructed. (2) Identify the total amount of land the facility will occupy. (3) Indicate the modes of transportation that will serve the site and describe the current condition of the transportation facilities. (4) Include a schematic diagram of the facility configuration.

B. Operations

1. Description of the Facility's Current and Proposed Operations

State the age, design specifications, and operating capacities for the unit(s) for which the exemption petition is being filed. For both utilities and major fuel burning installations (MFBIs), reference the page of the Fuels Decision Report (FDR) or appropriate FUA exemption form which gives the design data for each unit.

For utilities, specify whether each unit is a peak, intermediate, or baseload unit. For MFBIs, briefly describe what products will be manufactured. Cite the dates for planned retirement of any existing units.

2. Fuel Capacity

Discuss any fuels which may have been used in the past as primary fuel sources at this installation. List the proposed and alternate fuels which are under consideration for use at the facility and which are assessed individually in Section III of these guidelines. Reference the page of the FDR or appropriate form on which these fuels are discussed.

Indicate the number of days of fuel supply which will be stored on site, where the fuel will be stored, and the amount of land required for storage. Specify the types of fuel handling equipment which the facility has or plans to acquire.

3. Pollution Abatement Systems and Equipment

a. *Air.*—For facility expansions, describe any air pollution control equipment currently in place, i.e., electrostatic precipitators, baghouses, and/or scrubbers. Name the manufacturer, the size, design, and operational efficiency for each piece of equipment. State when the equipment was installed, whether it is currently being used, and the equipment's projected useful life time for achieving compliance with existing regulations. Provide a record of "down time," for both control equipment and monitoring equipment and indicate the location of the monitoring equipment in relation to the stacks. Describe the installed equipment or operational procedures used to control the emission of nitrogen oxides. If the facility has not yet been constructed, describe the air pollution control equipment that will be installed.

b. *Water.*—Describe waste water pollution control systems proposed for the facility, as well as any pretreatment and treatment methods for water used by the facility. Indicate whether the cooling water system and other powerplant or boiler processes operate on a once-through system or a recirculating system. Specify how liquid wastes from the various process areas are treated. Describe the volume, condition, and discharge procedure for waste effluents. A schematic diagram may be included for brevity.

c. *Solid waste.*—State the type and quantity of solid wastes which will be generated at the facility and describe how the waste will be handled. Name the location of solid waste storage and disposal facilities. Describe the type of soil at the proposed disposal site and state the site's distance and relationship to nearby surface water or underground aquifers. Discuss types or methods of lining or otherwise protecting the disposal site to prevent waste products from contaminating surface water or aquifers. If the waste disposal area is not within the confines of the facility site, state the distance and methods by which solid wastes will be transported, and the distances.

II. Description of the Existing Environment

Provide an overall description of existing environmental factors or resources which might be affected directly or indirectly by the facility's construction or operation, or which might affect that facility's construction or operation. Examples of pertinent environmental categories for consideration are listed below. All categories may not be relevant to each specific facility, and some facilities may require a substantially broader treatment for certain categories than for others. It will be incumbent upon the applicant to determine the particular areas of environmental impact for his specific facility and to develop this section appropriately.

A. *Air Resources*

1. Ambient Conditions and Applicable Air Pollution Standards and Classification

In terms of applicable Federal, state, and local standards and regulations, describe the ambient air quality within the facility's Air Quality Control Region (AQCR), and specifically within a 50-kilometer radius of the facility. For each criteria pollutant, indicate whether the AQCR or other areas likely to be affected by emissions from the facility are "attainment" or "non-attainment" areas. Give the location of the EPA or state monitoring stations which would monitor the facility. Cite those State Implementation Plan (SIP) regulations which are applicable to the facility. Indicate the EPA Prevention of Significant Deterioration (PSD) classifications (Class I, II, or III) and applicable state requirements for each criteria pollutant in the facility's AQCR and for those adjacent areas which are likely to be affected by facility emissions. Provide a summary of all relevant data which indicates the extent to which the National Ambient Air Quality Standards are being violated, or PSD increments have been consumed, in the area likely to be affected by emissions from the facility.

2. Climate

Give a brief description of the existing climate. Discuss terrain features which influence local climate. Specify the temperature range in winter and summer, the annual mean temperature and the season that receives the most precipitation. State the monthly average precipitation, the periods of peak and minimum rainfall, and the average humidity. Give predominant wind characteristics, including wind directions and frequencies, and annual wind speed range. Include a wind rose diagram. Indicate incidence of storms, such as tornadoes and hurricanes, and frequency and duration of temperature inversions, stagnations, fog, smog or icing. Specify the source of information and cite the location of monitoring stations.

B. Water Resources

1. General Descriptions

Describe the predominant water bodies in the facility area and their location relative to the plant. Describe any increased use of these water sources which would result from the proposed operation of the facility. If the facility proposes to withdraw water from a source, indicate the amount of water withdrawn or consumed in million gallons per day (MGD) and acre-feet per year. If the facility discharges or will discharge an effluent into a water body, indicate the volume discharged in MGD. Describe the receiving water body's average volume and flow in cubic feet per second (cfs), the minimum and peak flow rates, and the water body into which the receiving water flows. Indicate other current uses of each water body for recreation, public water supply, industrial use, etc. If the water source proposed for use in facility operation is also used by other industrial facilities, list those facilities and give their locations relative to the site.

2. Applicable Water Pollution Standards and Classifications

Indicate the EPA and state classification for the bodies of water which are serving as intake and discharge, i.e., water quality limited, effluent limited or other limitations. Describe applicable water pollution control regulations. State whether the facility would be located in a designated floodplain or wetland. (Consult 10 CFR Part 1022 for floodplain/wetland identification guidance). Indicate whether there are any federally designated or proposed Wild, Scenic or Recreation rivers in the facility area.

Give the location and numbers of the nearest EPA/state water quality reading stations above and below the proposed facility. Applicants for existing facilities should include a chart which shows the

allowable effluent discharge limitations according to any currently effective NPDES permit and give readings from the state or Federal monitors for each parameter over the past five years, or the life of the facility, whichever is shorter. Indicate the current ambient concentrations, as registered by the monitoring stations, of those constituents which EPA has designated as indicators of water quality. Note any violations of local, state, or Federal water quality standards which are or may be caused by the facility.

3. Aquatic Ecology

Describe the aquatic ecology of any water bodies which will be impacted by the facility. For each major water body, identify the most prevalent aquatic flora and fauna species which are essential constituents of the existing ecosystem.

Identify and threatened or endangered species (see 50 CFR Part 17) and species of particular commerical or sport value which are found in the bodies of water affected by any part of the facility's operations.

4. Groundwater

Describe any significant aquifers at the facility or relevant off-site areas and state their depth and direction of flow. Identify the location of groundwater recharge areas at the facility and at relevant off-site areas. Describe current uses of these aquifers and indicate any usage restrictions which may have been placed on them by federal, state or local authorities (for instance, designation as sole source aquifers pursuant to the Safe Drinking Water Act).

C. Land Resources

1. Topography, Physiography, and Geology

Describe the topography and geology of this area. Provide a description of the topographic, physiographic, and geologic features within the facility site and surrounding area, as well as any relevant off-facility site.

If necessary, delineate the generalized regional stratigraphy for the area around the facility. Note any geologic faults near the facility area and describe their relative location and depth. State the probability of occurrence of incidents such as earthquakes, and earthslides, land subsidence, or erosion.

If appropriate, describe the soil at the site in terms of its physical characteristics, its degree of permeability, its stability, and its drainage characteristics. Note whether the U.S. Department of Agriculture has classified the soil type as prime or unique farmland, or rangeland.

2. Terrestrial Ecology

Describe terrestial ecology and discuss the major types of flora and fauna present at the facility site, all relevant off-facility sites, and in the surrounding areas. In discussing fauna, note important migrant and resident species and their habitats. Indicate any unique ecosystems or communities and identify any species which are listed by the U.S. Department of Interior as threatened or endangered, or are of particular commerical or sport value. Describe the effects of construction and operation of the facility on these species.

3. Current land use

Describe current land uses at the facility site and relevant off-site areas, and indicate the existence of any specially designated Federal or state land areas. Discuss applicable zoning requirements for the county in which the facility and relevant off-site areas are located. Briefly describe whether the facility and other relevant sites are in an agricultural, residential or industrial corridor.

4. Transportation

List modes of transportation which will be used to bring fuel and other raw materials into the facility. Indicate the level of current usage of these transportation modes. Identify the roads which provide access to the facility, and cite the major highways nearby which connect the area in which the facility is located to other areas. If appropriate, describe the existing condition, utilization rate and capacity of the major roads. Name any railroads which serve the facility and indicate whether or not they are used under current or projected operations. If there are any docking facilities, describe what size vessels they accommodate, whether they are currently in use or projected for use by or for the facility and the frequency of use. Describe the level of current non-facility traffic on the relevent water bodies, roads, etc. Include discussion of transportation systems to any relevent off-site facility areas.

5. Noise

Describe the noise levels of the facility area in terms of EPA and state or local noise standards. If levels exceed EPA standards, or state or local regulations, specify what is being done to bring the facility into compliance.

6. Historic and archeological resources

Identify any historical, archeological, or scenic sites listed on the National Register of Historic Places and/or any other scenic or natural resources within a twenty-five mile radius of the facility.

7. Socioeconomics

Describe the socioeconomic characteristics of the facility area. Include a discussion of the basic employment patterns and income levels of the area. Describe existing community services such as police and fire protection, housing availability, school system, medical services, municipal water supply, and sewage disposal systems.

III. Environmental Impacts of the Proposal and Alternatives, Including Alternate Fuel Scenarios

In the following sections discuss the environmental impact of the proposed action and of reasonable alternative actions, including the "no-build" option. The discussion of the various environmental issues should treat the impact of both facility construction and operation including the cumulative impacts of the operation of the facility in combination with existing sources. The level of treatment of each projected environmental impact should be commensurate with the significance of that impact. If no significant impact is projected for a particular environmental resource, a brief justification for that conclusion should be stated.

A. Impacts of Proposed and Alternate Actions

This section should address the environmental impact of the proposed action, including use of the proposed fuel, and all reasonable alternatives to the proposed action, including those alternative fuel scenarios discussed in the Exemption chapter of the FDR. In addition, it should address those operating scenarios which are analyzed for purposes of comparison within the FDR. Alternative actions considered must also include the various pollution control technologies which could be implemented for both the proposed fuel and all alternative fuels.

1. Air Resources

a. *Air quality impacts.*—For each alternative fuel discussed, prepare a table describing the predicted average and peak emission rates for each of the following pollutants: Total Suspended Particulates (TSP), Sulfur Dioxide (SO_2), Nitrogen Dioxide (NO_2), Carbon Monoxide (CO) and Hydrocarbons (HC). Calculate emissions assuming compliance with applicable requirements, including New Source Performance Standards (NSPS), State Implementation Plan (SIP) and your estimate of what would constitute Best Available Control Technology (BACT) or Lowest Achievable Emission Rate, as appropriate. State all other relevant pollution control assumptions, including design and operational parameters, underlying each prediction.

Highlight any projected emissions which would cause violations of applicable Federal and state primary and secondary standards in the AQCR. If the facility is violating such a standard under current operations, indicate what will be done to bring the facility into compliance. Specify any additional violations of standards presently occurring in the AQCR in which the facility will be located and whether the applicant owns the other non-compliance sources. State the distance of the sources causing the violations, and what is being done to bring the sources into compliance.

In order to compare ground-level concentrations of criteria pollutants and the resulting effect on current ambient air quality, prepare the following chart for each fuel considered. State which model was used to calculate the concentrations, and whether the model is EPA-approved. If you were advised by EPA concerning the appropriate model to use, give the name, address and telephone number of the person who advised you.

Predicted Maximum Ground Level Concentrations

Pollutant	Average period	Facility impact	Maximum impact distance (Km)	Direction from facility	Current background	Background plus facility impact
TSP	Annual					
	24-hour					
SO_2	Annual					
	24-hour					
	3-hour					
NO_2	Annual					
CO	8-hour					
	1-hour					
HC	3-hour					

In addition, all petitioners should identify the impacts of emissions on PSD and nonattainment areas within a fifty kilometer (Km), radius of the facility, or at a lesser distance if the concentration will be less than what is specified in the PSD regulations 40 CFR 51.24 (b)(19)(c), 43 FR 26380, 26384 (June 19, 1978). If, however, the facility's emissions will effect a Class I area which is more than fifty Km from the facility, this impact must be considered (40 CFR 51.24(g)(3), 43 FR 26387).

2. Water Resources

a. *Surface water.*—Petitions for expansion or renovation of existing facilities should describe the present National Pollution Discharge Elimination System (NPDES) permits and indicate what modifications would be necessary if the facility received or were denied an exemption from burning coal or alternate fuels. Petitions for new facilities should indicate the status of the NPDES permit application and whether it would be affected by the use of any of the alternative fuels considered. Describe the water intake and discharge facilities and processes which would be necessary for operation, including any changes from existing operations and indicate the amount of water consumed and discharged.

Describe pretreatment and post-treatment of water. Using EPA-approved models,[1] prepare a summary chart on the projected change in ambient water quality caused by construction or operation under each fuel scenario. Discuss both existing and projected water quality. Comparisons should be made in terms of Federal, state and local water quality standards for appropriate EPA-designated water quality indicator constituents. Indicate where potential violations may occur and describe accident prevention and control measures. If construction or operation of the facility will occur on a floodplain or in a wetland area, discuss all practicable alternatives to construction/operation in the floodplain or wetland, all mitigating measures available, and all necessary permits for such construction/operation. Discuss any impact to Wild, Scenic, or Recreation rivers.

b. *Aquatic ecology.*—For each fuel scenario discuss the impact of construction and operation of the facility on aquatic ecology.

Emphasis should be placed on unique habitats or feeding grounds. Evaluate the impacts of dredging and increased sedimentation, or water quality deterioration on aquatic species and habitats. Specify particular species which may be affected. Identify any threatened or endangered species located in the aquatic environment, and note any impacts on them due to construction or operation under each fuel scenario. Provide documentation to substantiate the analyses.

c. *Groundwater.*—For each fuel scenario discuss any impact which construction and/or operation may have on groundwater resources. Discuss available mitigating measures.

3. Land Resources

a. *Construction impacts.*—Indicate required construction activities and land requirements for operation of the proposed action. Specifically, indicate how the land is used now and how many acres of land would be necessary for required additional facilities. Discuss any impact which construction/operation may have on the topography of the area. Discuss manner in which the construction/operation could be affected by geological activity.

b. *Local land use.*—Describe how operation and construction of the proposed facility system under each fuel scenario will affect the local land use patterns.

Identify effects on current land use of activities related to transport, processing, storage, and combustion of each fuel considered. Indicate whether the construction or operation would conflict with existing or proposed regional land use plans or regulations. If so, cite the plan or regulation and explain the conflict.

c. *Transportation.*—Note any changes in existing transportation requirements that would result from construction or operation under each fuel scenario. Indicate whether or not any projected increases would be beyond the capacity of the existing transportation system. In addition, consider and discuss any impacts which transportation of supplies of an alternate fuel might have upon existing transportation systems of surrounding communities (i.e. if supplies of coal were transported to a facility by truck over existing roads).

d. *Solid waste disposal.*—Specify the amount and type of solid waste which will be produced annually under each fuel scenario. Indicate location of (proposed) solid waste disposal sites, and state how the waste would be transported. If the solid waste is going to be disposed of on site describe how it is going to be handled. Describe how the facility's solid waste disposal practices would comply with EPA and state solid waste regulations, including those promulgated pursuant to the Resource Conservation and Recovery Act of 1976 and the Safe Drinking Water Act. Indicate what, if any impacts solid waste disposal may have on groundwater resources. If appropriate, reference preceding section III. A. 2c for details on groundwater.

e. *Terrestrial ecology.*—State the known or anticipated effects of construction and operation of the proposed facility on local flora and fauna under each fuel scenario. Indicate whether clearing the land for construction and operational activities will cause loss of habitat to threatened or endangered species, or species of commercial or sport value. Identify impacts on such species. Compare estimated short and long term concentrations of SO_2, NO_2, and particulates, presented in the preceding sections, with the threshold concentrations for damage to vegetation or animal life indigenous to the surrounding area. In the bibliography include references to sources upon which this discussion is based.

f. *Historical and archeological resources.*—The impacts of construction and operation under each fuel scenario on socio-cultural resources should be described, indicating whether the pollutants or other results of fuel burning would affect known historical, archaeological, or cultural resources in the area, or scenic and natural resources. Particular attention should be given to impact to sites which are listed as eligible for inclusion on the National Register of Historic Places. Discuss any mitigative measures deemed appropriate. Include the results (letters, etc.) of any consultation with appropriate state or federal Historic Preservation Officers.

g. *Socio-economics.*—Describe the impact which facility construction or operation under each fuel scenario would have on the socioeconomic regime and income levels of the surrounding area. Discuss whether the action would cause increased employment, influx of population, or increased pressure on such community services as housing availability, school system, police and fire protection, medical services, municipal water supply, and sewage disposal systems.

h. *Noise.*—Under each fuel scenario discuss the impact of increased noise levels attributed to the facility on nearby sensitive receptors.

B. Summary of Impacts

Summarize and compare in graphic and/or tabular form the impacts projected in part A for the proposed action and each alternative.

C. Impacts of No-Build Alternative

Discuss the environmental impact of a decision not to build or expand the facility following the outline given in part A of this section. The petitioner should evaluate the impacts of the no-build option in relation to the proposed action and should discuss only those impacts which differ from the impacts of the proposed action.

[1] Specify the EPA model which was used, the assumptions underlying the model and the limitations of the model.

IV. Regulatory Requirements Governing the Facility

List all Federal, State, and local permits which must be obtained for the construction or operation of the facility. Also list any other Federal, State, or local requirements which must be met. State how long the process of obtaining each permit (or complying with each other requirement) is expected to take, and when you applied or expect to apply for the permit (or initiate the process to comply with any other regulation).

Indicate whether an environmental impact statement which may adequately reflect the facility's construction and operation under each fuel scenario is being or will be prepared by any other Federal or State agency.

V. Bibliography

List alphabetically all sources consulted in preparing this analysis.

VI. Appendices

[FR Doc. 79-34091 Filed 11-2-79; 8:45 am]

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